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(54) Title: **PREKALLIKREIN DEPLETED PLASMA DERIVED ALBUMIN FRACTION**

(57) Abstract: An albumin containing fraction having a reduced prekallikrein activator (PKA) content and a method of manufacturing same comprising the steps of: (a) reconstitution of paste V (Cohn fractionation) (b) performing a concentration step of the fraction obtained in step (a), (c) heating the fraction obtained in step (b) in a range of from 50 °C to 70 °C for a sufficient time to pasteurise the fraction, and (d) optionally filling of the obtained fraction for use.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13239

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K38/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VERON J L ET AL: "COMBINED COHN/CHROMATOGRAPHY PURIFICATION PROCESS FOR THE MANUFACTURING OF HIGH PURITY HUMAN ALBUMIN FROM PLASMA" 1993, COLLOQUES INSERM, PARIS, FR, VOL. 227, PAGE(S) 183-188, XP000929669 ISSN: 0768-3154 figure 1	1,6,7
X	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; November 1998 (1998-11), TANAKA K ET AL: "Purification of human albumin by the combination of the method of Cohn with liquid chromatography." XP002247001 Database accession no. PREV199900048207 abstract -/-	1,6,7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	& BRAZILIAN JOURNAL OF MEDICAL AND BIOLOGICAL RESEARCH, vol. 31, no. 11, November 1998 (1998-11), pages 1383-1388, ISSN: 0100-879X	
X	US 4 440 679 A (FERNANDES PETER M ET AL) 3 April 1984 (1984-04-03) example 5	1,6,7
A	US 5 919 907 A (SHANBROM EDWARD) 6 July 1999 (1999-07-06) the whole document	1-7
A	US 4 608 254 A (PHILAPITSCH ANTON ET AL) 26 August 1986 (1986-08-26) examples 1,2	1-7
A	US 5 094 949 A (LINNAU YENDRA) 10 March 1992 (1992-03-10) the whole document	1-7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/13239

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4440679	A	03-04-1984	AT 30296 T	15-11-1987
			CA 1187410 A1	21-05-1985
			DE 3176491 D1	26-11-1987
			DK 98681 A ,B,	06-09-1981
			EP 0035204 A2	09-09-1981
			ES 8201827 A1	01-04-1982
			JP 1980554 C	17-10-1995
			JP 6011702 B	16-02-1994
			JP 56139422 A	30-10-1981
			MX 6967 E	09-01-1987
			US 4623717 A	18-11-1986
US 5919907	A	06-07-1999	NONE	
US 4608254	A	26-08-1986	AT 376367 B	12-11-1984
			AT 93283 A	15-04-1984
			AT 52919 T	15-06-1990
			CA 1205012 A1	27-05-1986
			DE 3482306 D1	28-06-1990
			EP 0119990 A2	26-09-1984
			ES 8507347 A1	16-12-1985
			JP 59181221 A	15-10-1984
US 5094949	A	10-03-1992	AT 391810 B	10-12-1990
			AT 49488 A	15-06-1990
			AT 94071 T	15-09-1993
			CA 1338499 C	30-07-1996
			DE 58905495 D1	14-10-1993
			DK 90589 A	27-08-1989
			EP 0330647 A2	30-08-1989
			ES 2059826 T3	16-11-1994
			FI 890907 A ,B,	27-08-1989
			JP 1261332 A	18-10-1989
			JP 2081211 C	09-08-1996
			JP 7116052 B	13-12-1995
			US 5324628 A	28-06-1994